



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,179	09/12/2003	Mark G. Smith	81083199/202-1580	2178

28395 7590 07/05/2005

BROOKS KUSHMAN P.C./FGTL
1000 TOWN CENTER
22ND FLOOR
SOUTHFIELD, MI 48075-1238

EXAMINER

RESTIFO, JEFFREY J

ART UNIT

PAPER NUMBER

3618

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/605,179	Applicant(s) MARK SMITH ET AL	
	Examiner Jeffrey J. Restifo	Art Unit 3618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 5-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 9-13 and 17-20 is/are rejected.
- 7) ☒ Claim(s) 6-8 and 14-16 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Acknowledgments

1. Acknowledgment is made of the amendment filed 4/11/05.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-3, 5, and 9-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Inoue et al. (US 6,750,630 B2).

Inoue et al. discloses a cooling system for a battery 110 in a vehicle with a passenger compartment, said system comprising an air inlet for receiving outside air, a first duct system (or first duct subsystem) 210, fan 212, heat exchanger 215, a second duct subsystem 130, air outlet (or third duct subsystem) 120 leading to the outside, said air outlet is in communication with the duct system and the passenger compartment by means of a first baffle (or flow inhibitor) 131 moving between a first and second position and able to be intermediate between the two positions, as shown in figures 1-16.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al. and further in view of Tajiri et al. (US 5,490,572 A).

With respect to claim 17, Inoue et al. discloses a cooling system for a battery 110 in a vehicle with a passenger compartment, said system comprising an air inlet for receiving outside air, a first duct system (or first duct subsystem) 210, fan 212, heat exchanger 215, a second duct subsystem 130, air outlet (or third duct subsystem) 120 leading to the outside, said air outlet is in communication with the duct system and the passenger compartment by means of a first baffle (or flow inhibitor) 131 moving between a first and second position and able to be intermediate between the two positions, as shown in figures 1-16. Inoue et al. does not disclose the air intake as being located in a window assembly. Simply shifting the location of the inlet is not patentable unless it produces an unexpected result, further placing air outlets and inlets in rear window assemblies is well known in the art and it would have been obvious to one having ordinary skill in the art at the time of the invention to have placed the air inlet of Inoue et al. in a window assembly as a matter of design choice.

With respect to claim 18, Inoue et al. does not disclose the battery as being in the rear of the vehicle under a floor. Tajiri et al. does disclose a vehicle battery cooling

Art Unit: 3618

system wherein the battery stack 41 is below a floor 39 and in the rear of the vehicle for allowing uninhibited access to the vehicle 1, as shown in figure 1-3. It would have been obvious to one having ordinary skill in the art at the time of the invention to have located the fuel cell stack of Inoue et al. under the floor and to the rear of the vehicle, as taught by Tajiri et al., in order to increase the storage capacity of the front hood area of the vehicle.

With respect to claim 19, Inoue et al. discloses a baffle 141 movable between two positions for inhibiting communication between the intake 222 and said battery 110, as shown in figure 12.

With respect to claim 20, Inoue et al. discloses first and second sensors 252,251 for creating an ambient air temperature signal and a battery temperature signal, respectively, and a controller for 254 to control the baffle, heat exchanger, and fan in response to said signals, as shown in figures 10-17.

Allowable Subject Matter

6. Claims 6-8 and 14-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Response to Arguments

8. Applicant's arguments filed 4/11/05 have been fully considered but they are not persuasive.

With respect to the applicant's arguments concerning claim 1, figure 7 shows a baffle 245 that can either inhibit inside recirculation air or inhibit outside air from communicating with the battery.

With respect to the applicant's arguments concerning claim 17, simply placing the inlet anywhere on the vehicle, including window assemblies is not patentable unless it produces an unexpected result.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

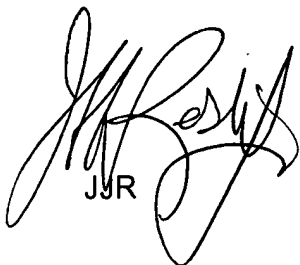
Art Unit: 3618

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey J. Restifo whose telephone number is (571) 272-6697. The examiner can normally be reached on M-F (10:00-6:00), alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher P. Ellis can be reached on (571) 272-6914. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JJR

Jeffrey J. Restifo
Examiner
Art Unit 3618



RECEIVED
JUL 13 2010
UNITED STATES PATENT AND
TRADEMARK OFFICE